# Sumit Ghosh

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## EDUCATION

**Indian Institute of Technology (BHU) Varanasi** **2021 – 2025**
*B.Tech - Mechanical engineering -* ***CGPA - 8.06*** *Varanasi, Uttar Pradesh*

## TECHNICAL SKILLS

**Languages/Dev Tools:** : C++, Python, SQL, Golang, Linux, Git, Github, Docker, Blockchain
**Development Frameworks:** ReactJS, NextJS, NodeJS, ExpressJS, Django, Gin Web Framework, Firebase
**Interests:** Data Structures and Algorithms, Competitive Programming, Web Development, Open Source, OOPS, DBMS, OS

## EXPERIENCE

**Intern at Neuronexus Innovations** **May 2024 - July 2024**
*Role - Web Developer* *Remote*

- Migrated the job portal from **React.js** to **Next.js**, enhancing performance with **SSR** and **SSG**, reducing load times.
- Leveraged **SSR** in Next.js to improve **SEO** by enabling search engines to index dynamic job details, company profiles, and search results, increasing organic traffic.
- Rewrote and optimized component logic to enhance code maintainability and reusability.
- Enhanced website responsiveness with a mobile-first approach and used **TailwindCSS** for consistent styling.

## PROJECTS

**AgroKart** | React.js, Node.js, Express.js, TailwindCSS, Firestore, GCP

- Developed a **CRUD** app connecting farmers with buyers and service providers for direct sales and market access.
- Built **APIs** and **Middleware** to optimize data processing and boost performance and scalability.
- Deployed the entire application on **Linux-based VM instances** on **Google Cloud Platform**.

**Secure Voting System** | Blockchain, Ethereum, Smart Contracts, Solidity

- Built a **blockchain voting platform**, enhancing security protocols with a 75% decrease in system vulnerabilities.
- Implemented decentralized code architecture, leveraging **Smart Contracts** to streamline transaction processes and remove intermediaries, enhancing transaction security and resulting in a 40% decrease in fraudulent activities.
- Developed and implemented a **Web3 API** integration to establish seamless communication with **Smart Contracts**.

**Path Finder** | HTML, CSS, JavaScript, Graph Algorithms

- Developed a website called **Path Finder** that helps in visualizing various **Path Finding Algorithms**.
- Utilized algorithms such as **BFS**, **DFS**, **Dijkstra**, and **Best First Search** to visualize the path from source to destination on a grid.
- Added features such as random maze generation, counting path nodes, and visited nodes.

## HONOURS AND ACHIEVEMENTS

- Specialist at **Codeforces** with a rating of **1418** — Handle: `HoLaAmIgOs`
- 3-Star Coder at **CodeChef** with a rating of **1702** — Handle: `dark_knight_47`
- Solved **450+** problems on **LeetCode** — Handle: `Z-gen`
- Ranked **32nd** globally in **HackSquad** with team `LIONAJO`, contributing **149 open-source contributions**.
- Completed **Hacktoberfest 2023**, highlighting commitment to open-source and community efforts.
- Made **450+** contributions on **GitHub**, including contributions to the `Rocket.Chat` organization with **10+ merged PRs**.